

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/002204

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D471/04 C07D487/04 C07K7/52 A61K38/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BELVISI, LAURA ET AL: "Cyclic RGD peptides containing azabicycloalkane reverse-turn mimics" HELVETICA CHIMICA ACTA, 85(12), 4353-4368 CODEN: HCACAV; ISSN: 0018-019X, 2002, XP001183922 abstract page 4355; compounds 1,3 ----- -/--	1-36

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A' document defining the general state of the art which is not considered to be of particular relevance
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- *O' document referring to an oral disclosure, use, exhibition or other means
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Date of the actual completion of the international search

12 October 2004

Date of mailing of the international search report

20/10/2004

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PCT/IB2004/002204

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GENNARI CESARE ET AL: "Solid-phase synthesis of peptides containing reverse-turn mimetic bicyclic lactams" EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, EDITIONS SCIENTIFIQUE ELSEVIER, PARIS, FR, no. 2, 1999, pages 379-388, XP002180752 ISSN: 0223-5234 abstract page 380; compounds 14A,14B,15A,15B page 381; compounds 1B,2B,3B	1-36
X	WO 97/05160 A (PALEARI FABIO ; CRISCUOLI MARCO (IT); SALIMBENI ALDO (IT); MENARINI FA) 13 February 1997 (1997-02-13) page 7, lines 10-15 examples 1-9	1-13
X	WO 96/30396 A (KAHN MICHAEL ; MOLECUMETICS LTD (US)) 3 October 1996 (1996-10-03) pages 94-100	1-4,9-15
X	BELVISI LAURA ET AL: "Conformational preferences of peptides containing reverse-turn mimetic bicyclic lactams. Inverse.gamma.-turns versus type-II'.beta.-turns. Insights into.beta.-hairpin stability" EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, EDITIONS SCIENTIFIQUE ELSEVIER, PARIS, FR, no. 2, 1999, pages 389-400, XP002180753 ISSN: 0223-5234 page 390; compound 1B	1-4,9-15
X	COLOMBO L ET AL: "Synthesis of new bicyclic lactam peptidomimetics by ring-closing metathesis reactions" TETRAHEDRON, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 59, no. 25, 16 June 2003 (2003-06-16), pages 4501-4513, XP004430771 ISSN: 0040-4020 abstract page 4503; compounds 11A,11B	1-4,6,9-15
X	COLOMBO L ET AL: "Stereoselective synthesis of 6,5-bicyclic reverse-turn peptidomimetics" TETRAHEDRON, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 54, no. 20, 14 May 1998 (1998-05-14), pages 5325-5336, XP004116433 ISSN: 0040-4020 page 5326; compound 1A page 5328; compound 8A	1-4,9-14
	-/-	

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/002204

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BOATMAN P DOUGLAS ET AL: "Secondary Structure Peptide Mimetics: Design, Synthesis, and Evaluation of .beta.-Strand Mimetic Thrombin Inhibitors" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 42, no. 8, 1999, pages 1367-1375, XP002180751 ISSN: 0022-2623 page 1368; compounds 1,2,3A,3B	1-4,9-15
X	COLOMBO L ET AL: "Conformationally Constrained Dipeptides: Synthesis of 7,5- and 6,5-Fused Bicyclic Lactams by Stereoselective Radical Cyclizations" TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 36, no. 4, 23 January 1995 (1995-01-23), pages 625-628, XP004028813 ISSN: 0040-4039 page 627; compound 11	1-4
X	EP 1 077 218 A (SIGMA TAU IND FARMACEUTI) 21 February 2001 (2001-02-21) cited in the application page 5, line 15 - page 7, line 50 figures 4,5,7 claim 1	16-36
A	BELVISI LAURA ET AL: "Conformational analysis of azabicycloalkane amino acid scaffolds as reverse-turn inducer dipeptide mimics" EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, WILEY-VCH VERLAG, WEINHEIM, DE, no. 14, 2000, pages 2563-2569, XP002180748 ISSN: 1434-193X page 2564 - page 2565; compounds 1-13	1-15
A	WO 98/27112 A (MERCK PATENT GMBH ; GOODMAN SIMON (DE); FITTSCHEN CLAUS (DE); HOELZEMA) 25 June 1998 (1998-06-25) the whole document	1-36
A	WO 91/15515 A (JOLLA CANCER RES FOUND) 17 October 1991 (1991-10-17) the whole document	1-36
A	WO 96/00581 A (VANDERSLICE PETER ; BECK PAMELA J (US); KOGAN TIMOTHY P (US); REN KAIJ) 11 January 1996 (1996-01-11) the whole document	1-36

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/002204

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9705160	A	13-02-1997	IT MI951688 A1 AU 6734296 A WO 9705160 A1	03-02-1997 26-02-1997 13-02-1997
WO 9630396	A	03-10-1996	AT 206433 T AU 712581 B2 AU 5371496 A AU 713530 B2 AU 5372996 A CA 2215695 A1 CA 2215720 A1 DE 69615671 D1 DE 69615671 T2 EP 0817642 A1 EP 0815123 A1 ES 2161354 T3 JP 10508034 T JP 10508035 T JP 2000319295 A JP 2004131511 A US 2003191109 A1 US 6020331 A US 6245764 B1 WO 9630035 A1 WO 9630396 A1 US 6586426 B1 US 6699869 B1	15-10-2001 11-11-1999 16-10-1996 02-12-1999 16-10-1996 03-10-1996 03-10-1996 08-11-2001 08-08-2002 14-01-1998 07-01-1998 01-12-2001 04-08-1998 04-08-1998 21-11-2000 30-04-2004 09-10-2003 01-02-2000 12-06-2001 03-10-1996 03-10-1996 01-07-2003 02-03-2004
EP 1077218	A	21-02-2001	US 6235877 B1 EP 1077218 A2 JP 2001089499 A US 2001001309 A1 US 2002068695 A1	22-05-2001 21-02-2001 03-04-2001 17-05-2001 06-06-2002
WO 9827112	A	25-06-1998	DE 19653036 A1 AT 199256 T AU 722817 B2 AU 5758498 A CA 2280233 A1 CN 1247543 A CZ 9902232 A3 DE 59703023 D1 DK 948525 T3 WO 9827112 A1 EP 0948525 A1 ES 2156011 T3 GR 3035848 T3 HU 0000490 A2 NO 993010 A PL 334186 A1 PT 948525 T RU 2202557 C2 SI 948525 T1 SK 82099 A3 TW 494105 B US 6333308 B1 ZA 9711392 A	25-06-1998 15-03-2001 10-08-2000 15-07-1998 25-06-1998 15-03-2000 15-09-1999 29-03-2001 11-06-2001 25-06-1998 13-10-1999 01-06-2001 31-08-2001 28-08-2000 18-08-1999 14-02-2000 31-07-2001 20-04-2003 31-08-2001 12-06-2000 11-07-2002 25-12-2001 18-06-1999

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/002204

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9115515	A	17-10-1991	AT 155482 T	15-08-1997
			AU 3424695 A	14-03-1996
			AU 660926 B2	13-07-1995
			AU 7763191 A	30-10-1991
			CA 2079606 A1	07-10-1991
			DE 69126871 D1	21-08-1997
			DE 69126871 T2	12-03-1998
			DK 527798 T3	15-12-1997
			EP 0527798 A1	24-02-1993
			EP 0749979 A2	27-12-1996
			ES 2104702 T3	16-10-1997
			FI 924472 A	05-10-1992
			GR 3024996 T3	30-01-1998
			JP 5509294 T	22-12-1993
			NO 923875 A	04-12-1992
			WO 9115515 A1	17-10-1991
			US 6017877 A	25-01-2000
			US 6013625 A	11-01-2000
			US 5612311 A	18-03-1997
			US 6521594 B1	18-02-2003
			US 5672585 A	30-09-1997
			US 6395873 B1	28-05-2002
			US 5648330 A	15-07-1997
			US 5780303 A	14-07-1998
			US 6100236 A	08-08-2000
WO 9600581	A	11-01-1996	AU 2958195 A	25-01-1996
			CA 2193828 A1	11-01-1996
			EP 0767674 A1	16-04-1997
			JP 10502349 T	03-03-1998
			US 6087330 A	11-07-2000
			WO 9600581 A1	11-01-1996
			US 6713604 B1	30-03-2004